

CLAIMS

1 1. A method for signaling of information in a frame based transmission system,
2 whereat the signaling information contains information necessary for the operation of the
3 transmission system,
4 characterized by steps of
5 inserting signaling information related to individual frames into said individual
6 frames, and
7 partitioning signaling information and inserting said partitioned signaling information
8 into different frames.

1 2. A method according to claim 1,
2 characterized in, that
3 said inserted signaling information and said inserted partitioned signaling
4 information is synchronized by using the given synchronization of the frame based
5 transmission system.

1 3. A method according to claim 1 or 2,
2 characterized in, that
3 said signaling information and said partitioned signaling information indicate a coding
4 mode used for coding and decoding data in the transmission system.

1 4. A method according to claim 1,
2 characterized in, that
3 said inserted signaling information related to individual frames indicates a coding mode
4 used for coding and decoding data in the transmission system, said partitioned signaling
5 information inserted into different frames of the uplink is a quality criterion for the
6 transmission, and
7 said partitioned signaling information inserted into different frames of the downlink
8 indicated a coding mode used for coding and decoding data in the transmission system.

1 5. A method according to claim 1,
2 characterized in, that
3 said inserted signaling information related to individual frames is channel coded
4 separately.

1 6. A method according to claim 1,
2 characterized in, that
3 said partitioned signaling information inserted into different frames is channel coded
4 together with data contained in said different frames.

1 7. A method according to claim 1,
2 characterized in, that
3 the transmission system is a radio network system.

1 8. A method according to claim 7,
2 characterized in, that
3 said radio network system is a GSM system.

1 9. A frame based transmission system for signaling of information, whereat the
2 signaling information contains information necessary for the operation of the
3 transmission system, having
4 means for coding and decoding of data (10, 11;20,21),
5 means for handling the coded data in frame format (14;24), and
6 means for transmitting and receiving the frames (15,16;25,26),
7 characterized by
8 means for inserting and evaluating signaling information (12;22) into and from individual
9 frames related to said individual frames, and
10 means for partitioning signaling information (12;22) and inserting and evaluating said
11 partitioned information into and from different frames.

1 10. A system according to claim 9,
2 characterized in, that
3 means for synchronizing (10,11,14;20,21,24) are used to synchronize said inserted
4 signaling information and said inserted partitioned signaling information according to the
5 given synchronization of the frame based transmission system.

1 11. A system according to claim 9 or 10,
2 characterized in, that

3 means for channel coding and decoding (13;23) are used to channel code and decode the
4 signaling information provided by said means for inserting and evaluating signaling
5 information (12;22) into and from individual frames.

1 12. A system according to claim 9,

2 characterized in, that

3 the means for coding (11;21) are used to channel code and decode the signaling
4 information provided by said means for partitioning signaling information (12;22) and
5 inserting and evaluating said partitioned information into and from different frames.

1 13. A system according to claim 9,

2 characterized in, that

3 the transmission system is a radio network system.

1 14. A system according to claim 13,

2 characterized in, that

3 said radio network system is a GSM system.

1 15. A system according to claim 9,

2 characterized in, that

3 said signaling information provided by said means for inserting and evaluating signaling
4 information (12;22) into and from individual frames and said signaling information
5 provided by said means for partitioning signaling information (12;22) and inserting and
6 evaluating said partitioned information into and from different frames indicate coding
7 modes used by the means for coding and decoding (10, 11; 20, 21).

1 16. A system according to claim 15,

2 characterized in, that

3 said system is a fixed part (1) of said radio network system.

1 17. A system according to claim 9,

2 characterized in, that

3 said signaling information provided by said means for inserting and evaluating signaling
4 information (12;22) into and from individual frames indicate coding modes used by the
5 means for coding and decoding (10,11;20,21), and said signaling information provided by
6 said means for partitioning signaling information (12;22) and inserting and evaluating

7 said partitioned information into and from different frames indicate a quality criterion for
8 transmission.

1 18. A system according to claim 17,

2 characterized in, that

3 said system is a mobile part (2) of said radio network system.

1 19. A system according to claim 18,

2 characterized in, that

3 said quality criterion for transmission is evaluated by said mobile part (2) of said radio
4 network system, based on frames received from said fixed part of said radio network
5 system.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100